## **AMENDMENTS TO THE CLAIMS**

Docket No.: HO-P03225US0

- 1. (currently amended) A\_Hhydraulic device for injection of bone cement in a percutaneous vertebroplasty comprising, that comprise four main parts, namely:an injecting syringe, a pressure exerting body, a hydraulic transmission tube, an manual impulsion and a fluid control syringe; wherein the injection syringe is a commercially available disposable 3 ml hypodermic syringe is placed next to the patient; the hydraulic tube for pressure transmission; of 1.0 m to 1.5 m length; is placed between the impulsion or the manual injection syringe and the pressure exerting body; the manual impulsion syringe is placed after the hydraulic tube and near the operator, characterized by and the pressure exerting body consists of a hollow cylindrical body in the form of an inverted syringe of having a larger diameter with an adapted ending having like an open bolster with the a largerst external diameter and two diametrical opposed cuts having an like oval entry, and also in the other end having one tip of a reduced diameter; an peripheral groove in the internal wall of such the bolster such that it, couples tightly with the wings of the injection syringe in a revolved way; such and the pressure exerting body has a movable piston on an axial direction to define two chambers, namely, an internal and an external chamber.
- 2. (currently amended) The Hhydraulic device offor injection of bone cement according to the claim 1, eharacterized bywherein the cylindrical hollow of the pressure exerting body (1), is in form of an inverted positioned syringe that renders a mechanical advantage to the force exercised in the manual syringe and, it has a larger diameter and consists of a joining bolster with an internal peripheral groove where are that is to coupled the wings of the injecting 3 ml syringe; a body cylindrical lengthened hole of having a volume of 10 ml of volume that contains a first free camera where the plunger (e) of the injection syringe lodges inside the cylinder until coupled with the moving internal piston—(4), and a second internal camera (5) occupies by a hydraulic fluid, and the this cameras are separated by such piston (4) surrounded by a rubber cap that seals the internal wall of the body of pressure and avoids leakage of the hydraulic fluid; and a final end tip of reduced diameter that is connected in a hermetic way to the hydraulic tube—(7).
- 3. (currently amended) The Hhydraulic device of for injection of bone cement according to the claim 2, characterized bywherein the bolster is adapted to receive in a first 25575118.1

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predetermined position of an-the oval entry (70)-the wings of the injection syringe, and in

second position by a 90° turn in thea peripheral groove (90), placed in a tight way.

4. (currently amended) The Hhydraulic device of for injection of bone cement

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according to the claim 1, characterized bywherein the manual syringe (8)-is a lengthened

syringe that has a smaller diameter than the pressure exerting body in a 2/1, 3/1, 4/1 ratio, and

it is connected in continuation, far from the application point by a hydraulic tube.

5. (currently amended) A method of operating the device for injection of bone cement

that comprisinges:

to-inserting a -bone biopsy needle in the place where the bone cement is to be

delivered;

to-connecting- the injecting syringe, loaded with the cement, in continuation of the

needle;

to-couplinge in a revolved way, the injecting syringe in the internal peripheral groove

of the bolster of the pressure exerting body;

to exerting pressure on the plunger of the injecting syringe by means of the force

exerted in the plunger of the manual syringe placed in the other end of the hydraulic tube

such that , this way, the content of the injecting syringe is injected in the patient's vertebral

body;

to-retracting the plunger of the manual syringe to withdraw the internal piston of the

body of pressure in -position -to receive a new loaded cartridge of bone cement;

to-uncouplinge- the injecting syringe from the bolster of the body of pressure;

to-disconnecting the empty syringe from the needle placed in the patient's body;

to-coupleing the new cartridge of bone cement (injecting syringe) in the needle and

bolster of the body of pressure; , and

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completing the filling- of the vertebral body.

repeating the previous steps to place another new cartridge of bone cement, until

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